

## **Quiz 3 Memo**

**Date: 28-05-21**

### **Question 1 Answer [2 Marks]**

\_\_\_\_\_ is a method of arranging a file of records on external storage.

Ans: File organization

### **Question 2 Answer [2 Marks]**

The \_\_\_\_\_ stages pages from external storage to main memory buffer pool.

Ans: Buffer manager

### **Question 3 Answer [2 Marks]**

A quicksort is known as the second fastest sorting algorithm to sort out files in memory.

- True
- False

### **Question 4 Answer [2 Marks]**

In a \_\_\_\_\_ we first have to Find the smallest record greater than the largest value to output to the buffer then add it to the end of the output buffer then fill the moved record's slot with next value from the input buffer and if empty refill the input buffer.

Ans: replacement sort

### **Question 5 Answer [2 Marks]**

A hash-based index is computed using the search key values so that all the records with a certain unique key value will be stored in a special place called a bucket.

- True
- False

**Question 6 Answer [2 Marks]**

Due to their key driven nature hash-based index are also known to be good for \_\_\_\_\_ selections.

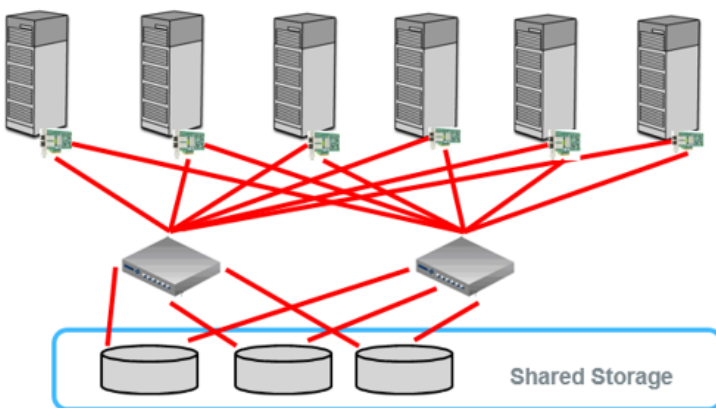
Ans: equality

**Question 7 Answer [2 Marks]**

After a file gets completely hashed it now regarded and known as a sorted file.

- True
- False

**Question 8 Answer [2 Marks]**



A clustered file becomes an \_\_\_\_\_ file when it searched on another key field.

Ans: Unclustered

**Question 9 Answer [2 Marks]**

Multi-attribute search keys should be considered when a WHERE clause contains \_\_\_\_\_.

- A. one condition
- **B. several conditions**
- C. sorted keys
- D. none of the above

**Question 10 Answer [2 Marks]**

If selection queries are infrequent, sorting the file or building an index is important.

- True
- **False**

**Question 11 Answer [2 Marks]**

\_\_\_\_\_ can be used to reduce wait time for I/O request to complete, can prefetch into a “shadow block”.

**Ans: Double buffering**

**Question 12 Answer [2 Marks]**

Hashing method is used to index and retrieve items in a database as it is faster to search that specific item using the shorter hashed key instead of using its original value.

- **True**
- False

**Question 13 Answer [2 Marks]**

Binary trees can retrieve records in order by traversing leaf pages.

- True
- **False**

**Question 14 Answer [2 Marks]**

Parallel \_\_\_\_\_ has become a popular sport and game that companies compete with computing capabilities.

Ans: external sorting

**Question 15 Answer [2 Marks]**

Generally, in a DBMS it is better to sort first then search than to search first without sorting.

- True
- False